

Amendments to the Claims

Claim 1 (Currently amended): A system comprising:
a computer having a housing;
a short-range transceiver operatively connected to the computer;
a handsfree voice communications device unit in communication with the short-range transceiver
wherein the handsfree voice communications device unit comprises a plurality of input
sensors, a digital processor operatively connected to the plurality of input sensors, a
speaker, and a second short range transceiver operatively connected to the digital
processor and the speaker;
the computer adapted to receive voice sound information from the short-range transceiver; and
the computer adapted to send voice sound information to the short-range transceiver.

Claim 2 (Original): The system of claim 1 wherein the handsfree voice communications unit is
a headset.

Claim 3 (Currently amended): The system of claim 1 wherein the handsfree voice
communications unit is an earpiece shaped to position at least one of the input sensors within an
external auditory canal of a user. [.]

Claim 4 (Previously presented): The system of claim 1 wherein the plurality of input sensors
of the handsfree voice communication unit includes a bone conduction sensor.

Claim 5 (Previously presented): The system of claim 1 wherein the plurality of input sensors
of the handsfree voice communication unit includes an air conduction sensor.

Claim 6 (Previously presented): The system of claim 1 wherein the plurality of input sensors
of the handsfree voice communication unit includes both an air conduction sensor and a bone
conduction sensor.

Claim 7 (Previously presented): The system of claim 3 wherein the earpiece shaped and sized so as not to occlude the external auditory canal of the user.

Claim 8 (Previously presented): The system of claim 3 wherein the plurality of input sensors of the earpiece includes a bone conduction sensor.

Claim 9 (Previously presented): The system of claim 3 wherein the plurality of input sensors of the handsfree voice communications unit includes an air conduction sensor and a bone conduction sensor.

Claim 10 (Previously presented): The system of claim 3 wherein the plurality of input sensors of the handsfree voice communications unit includes an air conduction sensor.

Claim 11 (Original): The system of claim 1 wherein the short-range transceiver is disposed within the housing of the computer.

Claim 12 (Original): The system of claim 10 further comprising an antenna electrically connected to the short-range transceiver at least partially extending beyond the housing.

Claim 13 (Original): The system of claim 1 further comprising a voice transceiver operatively connected to the computer, the computer adapted to receive voice sound information from the voice transceiver and the computer adapted to send voice sound information to the voice transceiver.

Claim 14 (Original): The system of claim 13 wherein the voice transceiver is disposed within the housing of the computer.

Claim 15 (Original): The system of claim 13 further comprising an antenna electrically connected to the voice transceiver at least partially extending beyond the housing.

Claim 16 (Original): The system of claim 13 wherein the short-range transceiver and the voice transceiver are disposed within the housing.

Claim 17 (Original): The system of claim 13 wherein the voice transceiver is contained within a removable telephone transceiver module.

Claim 18 (Original): The system of claim 17 wherein the removable module is housed within a PC card.

Claim 19 (Original): The system of claim 1 wherein the short-range transceiver is a removable short-range transceiver module.

Claim 20 (Original): The system of claim 19 wherein the short-range transceiver module is housed within a PC card.

Claim 21 (Original): The system of claim 13 wherein the voice transceiver and the short-range transceiver are housed within a removable module.

Claim 22 (Original): The system of claim 21 wherein the removable module is a PC card.

Claim 23 (Original): The system of claim 13 wherein the short-range transceiver is housed within a removable module and a voice transceiver is electrically connected to the removable module.

Claim 24 (Original): The system of claim 1 wherein the handsfree voice communications unit includes a short-range transceiver.

Claim 25 (Previously presented): A method of voice communication comprising:
transceiving voice sound information between a handsfree voice communication unit comprising
a plurality of sensors and a computer over a short-range first communications channel,

wherein the handsfree voice communication unit is sized and shaped so as not to occlude an external auditory canal of a user while the plurality of sensors are sensing the voice sound information;
transceiving voice sound information between the computer and a remote location over a second communications channel.

Claim 26 (Original): The method of claim 25 further comprising processing voice sound information.

Claim 27 (Original): The method of claim 25 further comprising transducing voice sound information at the handsfree voice communication unit.

Claim 28 (Previously presented): The method of claim 26 wherein one of the plurality of sensors is a bone conduction sensor and the step of transducing includes transducing a bone conduction signal.

Claim 29 (Original): The method of claim 25 further comprising identifying the handsfree voice communication unit.

Claim 30 (Original): The method of claim 25 further comprising comparing the voice sound information to voice sound information from a known source for security purposes.

Claim 31 (Previously presented): A method of voice communication comprising:
transducing a bone conduction signal at an earpiece sized and shaped so as not to occlude an external auditory canal of a user while transducing the bone conduction signal;
sending the bone conduction signal to a computer;
creating a voice sound signal at least partially based on the bone conduction signal at the computer;
transmitting the voice sound signal over a voice communications channel.

Claim 32 (Original): The method of claim 31 further comprising transducing an air conduction signal and wherein the voice sound signal is at least partially based on the air conduction signal.

Claim 33 (Original): The method of claim 32 wherein the air conduction signal is transduced at an earpiece.

Claim 34 (Original): The method of claim 32 wherein the air conduction signal is transduced at the computer.

Claim 35 (Original): The method of claim 33 further comprising transducing a second air conduction signal at the computer wherein the voice sound signal is at least partially based on the second air conduction signal.

Claim 36 (Previously presented): The system of claim 13 wherein the voice transceiver is adapted for cellular communications.

Claim 37 (Previously presented): The system of claim 13 wherein the voice transceiver is adapted for satellite communications.

Claim 38 (Currently amended): A removable card for voice communications over multiple channels comprising:

a removable card body adapted to be removeably inserted into a slot;

a short-range wireless transceiver disposed within the removable card body and adapted for two-way voice communications with a hands free voice communication unit; and

a voice-cellular transceiver disposed within the body and adapted for communications over a voice-cellular communication network.

Claim 39 (Original): The removable card of claim 38 further comprising a cardbus connector attached to the body for interfacing the card to a computer.

Claim 40-41 (Cancelled).

Claim 42 (Previously presented): A communications system comprising:
a computer;
a short-range transceiver operatively connected to the computer;
a voice transceiver operatively connected to the computer;
a handsfree voice communications device having an air conduction sensor and a bone conduction
sensor in communication with the short-range transceiver; and
wherein the handsfree voice communication unit is sized and shaped so as not to occlude an
external auditory canal of a user.

Claim 43 (Previously presented): A method of providing secure access to a computer
comprising:
receiving an identifier from a handsfree voice communication unit at the computer over a short-
range first communications channel;
granting access based on the identifier;
transceiving voice sound information between the handsfree voice communication unit and the
computer over the short-range first communications channel;
transceiving voice sound information between the computer and a remote location over a second
communications channel; and
wherein the identifier is a voice sample.

Claim 44-47 (Cancelled).

Claim 48 (Original): The method of claim 43 further comprising the step of associating a first
spatial position with the computer.

Claim 49 (Original): The method of claim 48 further comprising the step of associating a
second spatial position of the voice communications unit based on the first spatial position
associated with the computer.

Claim 50 (Currently amended): A system comprising:

a computer having a housing;

a short-range transceiver operatively connected to the computer;

a voice transceiver operatively connected to the computer;

a handsfree voice communications device unit in communication with the short-range transceiver, the handsfree device comprising a digital processor operatively connected to a plurality of input sensors, a speaker, and a second short range transceiver, and the handsfree device being sized and shaped so as not to occlude an external auditory canal of a user while sensing voice sound information from the plurality of input sensors;

the computer adapted to receive voice sound information from the short-range transceiver;

the computer adapted to receive voice sound information from the voice transceiver;

the computer adapted to send voice sound information to the short-range transceiver; and

the computer adapted to send voice sound information to the voice transceiver.